

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants	John Wnek, <i>et al.</i>
Serial No. - Pending	Filing Date: May ___, 2001
Title of Application	Anti-Side Splice Welder

Assistant Commissioner for Patents
Washington, DC 20231

Preliminary Amendment

Dear Sir:

Applicants submit the following Amendment and Remarks.

Amendment Revisions

Please amend the specification as follows:

On Page 1, line 1, please add the following:

This is a divisional of copending U.S. Patent application SN: 09/606,251 filed on 6/28/00.

Please amend the claims as follows:

Please delete claims 1 - 10.

Please amend claims 11 and 19 as follows:

11. (Amended) An ultrasonic welder comprising:

an ultrasonically agitated welding tip having a welding surface which extends in a plane;

a tip guide juxtaposed with the welding tip and having a guide surface extending perpendicular to the welding surface;

an anvil atop of the tip guide and having an anvil surface extending parallel to the welding surface;

a gathering block having a gathering surface extending parallel to the guide surface; and

a controller actuating the gathering block to move from an unloading position to a predetermined loading position, wherein the gathering surface is spaced apart from the guide surface at a predetermined distance to form a workpiece nest defined between the anvil, welding, gathering and guide surfaces, and the controller actuates the gathering block to move in a time-controlled manner away from the working space back to the unloading position after welding has been completed.

13. (Amended) The ultrasonic welder defined in claim 11 wherein the controller has a memory unit displacing the gathering block to the predetermined loading position in response to data containing a diameter of the workpiece.

16. (Amended) The ultrasonic welder defined in claim 11 wherein the gathering block is controllably stopped for a predetermined period of time before moving back toward the tip guide.

19. (Amended) An ultrasonic welder for splicing a plurality of workpieces comprising:
four anvils having meeting surfaces two of which form side faces of a workpiece nest having a preset width which is defined between the side faces of the nest spaced from one another in a predetermined loading position; and

a controller displacing at least one of the anvils forming the side faces from the predetermined loading position to an unloading position for a predetermined period of time sufficient to remove the welded workpieces and back to the predetermined loading position upon terminating of the predetermined period of time to reestablish the preset width before the workpiece nest receives new workpieces.

Please add new claims 21-27 as follows:

21. The ultrasonic welder defined in claim 19, wherein the four anvils comprise an agitated welding tip, a tip guide, an anvil and a gathering block.

22. The ultrasonic welder defined in claim 19 wherein the predetermined loading position is sufficient only to place the wires in a series of adjacent substantially parallel vertical columns.

23. The ultrasonic welder defined in claim 19 wherein the width of the predetermined loading position is determined by the formula $W=DN$, where D is the diameter of a single wire or workpiece, and N is a number of columns.

24. The ultrasonic welder defined in claim 19 wherein the width of the predetermined loading position corresponds to a width of the workpiece nest sufficient for stacking the wires in a least one column extending substantially vertically from the welding tip.

25. The ultrasonic welder defined in claim 11 wherein the predetermined loading position is sufficient only to place the wires in a series of adjacent substantially parallel vertical columns.

26. The ultrasonic welder defined in claim 11 wherein the width of the predetermined loading position is determined by the formula $W=DN$, where D is the diameter of a single wire or workpiece, and N is a number of columns.

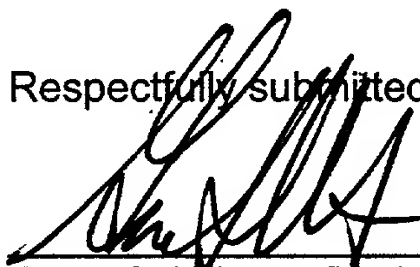
27. The ultrasonic welder defined in claim 11 wherein the width of the predetermined loading position corresponds to a width of the workpiece nest sufficient for stacking the wires in a least one column extending substantially vertically from the welding tip.

Remarks

By the foregoing Amendment, claims 1 - 10 are cancelled, claims 11, 13, 16 and 19 are amended, and new claims 21-27 are added. Entry of the Amendment, and favorable consideration thereof is earnestly requested.

The examiner has in an Office Action dated June 28, 2000 has asserted that claims 11 - 18 and 19 - 20 are patentably distinct and are subject to election and/or restriction. Applicant respectfully submits that claim 19 is generic to claim 11 particularly in view of new claim 21 wherein the anvils comprise an agitated welding tip, a tip guide, an anvil and a gathering block. Therefore, applicant respectfully submits that all of the remaining claims 11-27, be considered together in the application, are in order for allowance, and early notice to that effect is respectfully requested.

Respectfully submitted,



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Replacement Claims per § 1.121(c)(30):

11. (Amended) An ultrasonic welder comprising:

an ultrasonically agitated welding tip having a welding surface which extends in a plane;

a tip guide juxtaposed with the welding tip and having a guide surface extending perpendicular to the welding surface;

an anvil atop of the tip guide and having an anvil surface extending parallel to the welding surface;

a gathering block having a gathering surface extending parallel to the guide surface; and

a controller actuating the gathering block to move from an unloading position to a predetermined loading position, wherein the gathering surface is spaced apart from the guide surface at a predetermined distance to form a workpiece nest defined between the anvil, welding, gathering and guide surfaces, and the controller actuates the gathering block to move in a time-controlled manner away from the working space back to the unloading position after welding has been completed.

13. (Amended) The ultrasonic welder defined in claim 11 wherein the controller has a memory unit displacing the gathering block to the predetermined loading position in response to data containing a diameter of the workpiece.

16. (Amended) The ultrasonic welder defined in claim 11 wherein the gathering block is controllably stopped for a predetermined period of time before moving back toward the tip guide.

19. (Amended) An ultrasonic welder for splicing a plurality of workpieces comprising:

four anvils having meeting surfaces two of which form side faces of a workpiece nest having a preset width which is defined between the side faces of the nest spaced from one another in a predetermined loading position; and

a controller displacing at least one of the anvils forming the side faces from the predetermined loading position to an unloading position for a predetermined period of time sufficient to remove the welded workpieces and back to the predetermined loading position upon terminating of the predetermined period of time to reestablish the preset width before the workpiece nest receives new workpieces.

21. The ultrasonic welder defined in claim 19, wherein the four anvils comprise an agitated welding tip, a tip guide, an anvil and a gathering block.

22. The ultrasonic welder defined in claim 19 wherein the predetermined loading position is sufficient only to place the wires in a series of adjacent substantially parallel vertical columns.

23. The ultrasonic welder defined in claim 19 wherein the width of the predetermined loading position is determined by the formula $W=DN$, where D is the diameter of a single wire or workpiece, and N is a number of columns.

24. The ultrasonic welder defined in claim 19 wherein the width of the predetermined loading position corresponds to a width of the workpiece nest sufficient for stacking the wires in a least one column extending substantially vertically from the welding tip.

25. The ultrasonic welder defined in claim 11 wherein the predetermined loading position is sufficient only to place the wires in a series of adjacent substantially parallel vertical columns.

26. The ultrasonic welder defined in claim 11 wherein the width of the predetermined loading position is determined by the formula $W=DN$, where D is the diameter of a single wire or workpiece, and N is a number of columns.

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27. The ultrasonic welder defined in claim 11 wherein the width of the predetermined loading position corresponds to a width of the workpiece nest sufficient for stacking the wires in a least one column extending substantially vertically from the welding tip.

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